ORIGINAL

POLREP #204 XXXXX XXXXX XXXXX DRAFT XXXXX XXXXX XXXXX XXXXX
SHAFFER ELECTRIC COMPANY SITE
MINDEN, FAYETTE COUNTY, WV 25879

EVENT: SITE ASSESSMENT

ATTN: DENNIS CARNEY, ERD/OERR

I. SITUATION (MONDAY NOVEMBER 28, 1994, 1500 HOURS)

A. TAT DRAFTED AN EXTENDED CONTAMINATION STUDY (ECS) WORK PLAN FOR THE SITE. THE OSC DISTRIBUTED THIS WORK PLAN TO EPA, STATE AND LOCAL OFFICIALS AND THE PRPs FOR INFORMATION.

B. OSC REQUESTED THE U.S. BUREAU OF RECLAMATION GEOLOGY BRANCH (USBR) UNDER AN INTERAGENCY AGREEMENT (IAG) TO CONDUCT A GEOLOGICAL ASSESSMENT OF THE SITE, TO INSTALL MONITORING WELLS FOLLOWING THE ECS WORK PLAN AND TO ASSESS THE OVERALL THREAT TO AREA GROUNDWATER SUPPLIES.

II. ACTIONS TAKEN

6 A. SEPTEMBER 21, 1994: USBR REPRESENTATIVES VISITED THE SITE WITH TAT TO GET AN IDEA ABOUT THE SITE PRIOR TO CONDUCT GEOPHYSICAL SURVEY AND GEOLOGICAL ASSESSMENT OF THE SITE.

B. OCTOBER 17-21, 1994: USBR PERFORMED GEOPHYSICAL SURVEY IN THE PIT AREA TO DETERMINE THE EXTENT OF THE PIT AND TO FIND ANY BURIED METALS. USING ROPES AND A COMPASS, USBR LAID OUT A GRID, AND THEN CONDUCTED MAGNETOMETER AND ELECTROMAGNETIC SURVEY IN THE PIT AREA. BASED ON THE SURVEY FINDINGS, USBR SURVEYED AN ADDITIONAL AREA EAST OF THE PIT AREA. USBR IDENTIFIED ON THE GROUND THE AREA SURVEYED AND THE AREAS WHERE ANOMALIES HAVE BEEN FOUND.

(1)

C. BASED ON THE SITE VISIT AND FINDINGS OF THE GEOPHYSICAL SURVEY, USBR PROPOSED RELOCATION OF A FEW BOREHOLES. TO STUDY THE GROUNDWATER FLOW CHARACTERISTICS IN THE BED ROCK, USBR PROPOSED TO INSTALL WELLS 30 FEET INTO THE BEDROCK IN THREE LOCATIONS. USBR ALSO, PROPOSED TESTING OF PHYSICAL PROPERTIES OF SOIL CORES FROM BOREHOLES. THE OSC AGREED WITH THE PROPOSALS.

D. EPA, TAT AND USBR MOBILIZED ON SITE ON OCTOBER 28, 1994, AND PERFORMED SITE WORKS ACCORDING TO THE ECS WORK PLAN DURING OCTOBER 28 THROUGH NOVEMBER 13, 1994. DURING THIS PERIOD THE FOLLOWING SITE WORKS HAVE BEEN PERFORMED:8

1. DRILLING ACTIVITIES:

BOREHOLES DRILLED	16
OBSERVATORY WELL INSTALLED	11
BEDROCK WELL INSTALLED	1
BOREHOLES GROUTED	4
SOIL PERMEABILITY TESTED IN BOREHOLES	4

2. SAMPLING ACTIVITIES:

ORIGINAL

SAMPLES	COLLECTED	FIELD TESTED	SENT TO LAB
SOIL, ON SITE	96	76	34
SOIL, OFF SITE	5	5	5
SEDIMENT, ON SITE	8	8	4
SEDIMENT, OFF SITE	3	3	2
GROUNDWATER	6	0	6
RINSATE	3	0	3
DECON WATER	1	0	1
SHAFFER BUILDING, INSIDE	17	5	14
FIELD BLANK	2	0	2
TOTAL	140	97	71

3. USBR DRILLED BOREHOLES, COLLECTED SOIL CORE SAMPLES, INSTALLED AND DEVELOPED WELLS, PERFORMED SOIL PERMEABILITY TESTS IN BOREHOLES, SECURED WELLS WITH PROTECTIVE CASINGS, AND BUILT A CONCRETE PAD AROUND THE BED ROCK WELL SS-11. USBR GROUTED BOREHOLES WHERE WELLS WERE NOT INSTALLED. USBR MOBILIZED A HOLDING TANK ON SITE AND STORED ALL WATER GENERATED FOR FUTURE DISPOSAL. USBR DRUMMED ALL SOIL CUTTINGS AND STORED THEM INSIDE THE PAINT ROOM OF THE SHAFFER ELECTRIC BUILDING FOR FUTURE DISPOSAL. USBR CONTRACTOR SURVEYED THE SITE TO TIE THE BASELINE GRID POINTS TO THE STATE PLANE SYSTEM.

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4. TAT IDENTIFIED THE SAMPLING LOCATIONS ON AND OFF SITE, RESURVEYED THE LOCATIONS WHICH HAVE BEEN RELOCATED, AND WITH THE HELP OF ARBUCKLE PSD IDENTIFIED THE LOCATIONS OF UNDERGROUND UTILITY LINES. TAT COLLECTED SAMPLES; FIELD TESTED SOIL, SEDIMENT AND FLOOR DUST SAMPLES FOR PCBs USING A FIELD TEST KIT; ARRANGED LABORATORY FOR SAMPLE ANALYSIS; AND DELIVERED SAMPLES TO COMMERCIAL TESTING, CHARLESTON, WV, FOR ANALYSIS. TAT ALSO, VIDEO-DOCUMENTED THE CONTENTS OF THE SHAFFER ELECTRIC BUILDING ALONG WITH A PRP REPRESENTATIVE.

(3)

5. THE OSC UPDATED SITE ACTIVITIES TO WVDEP, LOCAL OFFICIALS, LOCAL NEWS MEDIA, CCSFC AND OTHER INTERESTED CITIZENS. THE OSC ALSO, SOUGHT PERMISSION FROM THE OFF-SITE PROPERTY OWNERS FOR SAMPLING IN THEIR PROPERTY, AND FROM PRP FOR STORING SOIL CUTTING DRUMS IN THE PAINT AREA OF THE SHAFFER BUILDING.
6. NO GROUNDWATER WAS ENCOUNTERED IN THE BOREHOLES DRILLED IN THE EARLIER PART OF THIS PERIOD. SINCE THE PAST SITE HISTORY INDICATES THAT GROUNDWATER LEVEL FLUCTUATES DEPENDING ON THE SEASON AND CLIMATE CONDITIONS, THE OSC ADVISED USBR TO INSTALL OBSERVATORY WELLS AT ALL HOLE LOCATIONS IN THE FLAT, SO THAT GROUNDWATER, IF AVAILABLE, CAN BE SAMPLED AT THOSE LOCATIONS IN OTHER SEASONS. BASED ON THE FIELD CONDITIONS, MW-7 HAS

BEEN RELOCATED FROM THE HILL TO THE FLAT AREA AND SS-12 HAS BEEN RELOCATED TO THE EAST OF THE DITCH.

7. THE PROPOSED BEDROCK WELL AT LOCATION SS-15 COULD NOT BE INSTALLED DUE TO A LEAK IN THE GROUT SEALING AROUND THE CASING. AFTER THE PERMEABILITY TEST AT THE BEDROCK WELL MW-10, THE OUTER HOLE COLLAPSED AND A SANDPACK COULD NOT BE PLACED AROUND THE SCREEN. BOTH THE HOLES HAD TO BE ABANDONED AND GROUTED BECAUSE OF POTENTIAL CROSS CONTAMINATION OF THE BEDROCK.

E. ALL PERSONNEL DEPARTED SITE BY NOVEMBER 13, 1994.

III. FUTURE PLANS

A. TAT TO RECEIVE ANALYTICAL AND PERFORM DATA VALIDATION.

B. USBR TO SUBMIT A REPORT TO THE OSC OF THEIR FINDINGS.

C. BASED ON PREVIOUS AND CURRENT SITE DATA AND USBR FINDINGS, OPTIONS FOR LONG TERM REMEDY AND POST REMOVAL CONTROLS WILL BE EVALUATED.

STEPHEN JARVELA, OSC
U.S. EPA REGION III
PHILADELPHIA, PA